#### **Focus Area Work Session**

# Land Use and Institutional Controls and Homeland Security

Weldon Spring Site Interpretive Center

December 5, 2002

#### **Agenda**

7:00 p.m. Welcome, Pam Thompson, Manager, Weldon Spring Objective of Work Session, Dave Geiser, Director, DOE Office of Long-Term Stewardship Results of the October 23, 2002, Work Session on Communication and Public Participation; Approach to Work Session, Ray Plieness, Deputy Manager, DOE Grand Junction Office 7:10 p.m. Major Issue 1: Assess Risks From Residual Contamination, Mary Picel, Argonne National Laboratory 7:30 p.m. Major Issue 2: Define Institutional Control Areas and Requirements and Institutional Control Process and Implementation, Pam Thompson

## **Agenda** (continued)

8:00 p.m.	Major Issue 3: Stewardship Activities for Institutional Controls, Ray Plieness
8:20 p.m.	Major Issue 4: Site Security, Dave Geiser
8:40 p.m.	Update on Weldon Spring Project Remedial and Transition Activities, Ray Plieness
8:50 p.m.	Closing Comments, Dave Geiser
9:00 n.m.	Adiourn

**Focus Area** 

**Major Issues** 

Comment

Areas

- Focus Area
  - DOE proposes to have three Focus Area sessions
    - October 23: Communication and Public Participation
    - December 5: Land Use and Institutional Controls and Homeland Security
    - January 2003: Monitoring and Maintenance

- Major Issues
  - Each Major Issue was developed as a means to capture most of the Focus Area comments and consolidate them into a few Major Issues to promote general understanding of concerns and to facilitate communication between DOE and the public on common themes

- Comment Areas
  - Each Comment Area describes significant comments in more detail under a Major Issue, which should allow resolution of the majority of comments without discussing individual comments

## Major Issue 1: Assess Risks From Residual Contamination

Sections 2.4 and 2.5 of Long-Term Stewardship Plan

- Comments relating to this issue: A-58, 67, 69, 79, 82, 87, 89, 138, 184, 186, 195, 279; B-28, 48; E-13, 14; F-18; H-11; J-2, 5, 34, 40, 62, 63; K-11; L-11, 23, 51, 52, 63, 64, 89, and 174
- Comment Areas
  - What are the risks?
  - Is the public safe from the remaining contamination?

# Major Issue 2: Define the Institutional Control Areas and Requirements and the Institutional Control Process and Implementation

Section 2.6 of Long-Term Stewardship Plan

Comments relating to Define the Institutional Control Areas and Requirements: A-18, 41, 51, 57, 68, 73, 74, 75, 76, 83, 84, 85, 86, 187, 192, 197, 226, 229; B-14, 15, 24, 25; E-5; H-32, 33; J-13, 27, 38, 41; K-17; L-11, 22, 57, 62, 64, 73, 74, 78, 81, 142, and 165

#### Major Issue 2 (continued)

- Comment Areas
  - Current State land use and controls, Missouri Department of Natural Resources
  - Current Federal land use and controls
  - Where will institutional controls be required?
  - How will current land use be affected?

#### Major Issue 2 (continued)

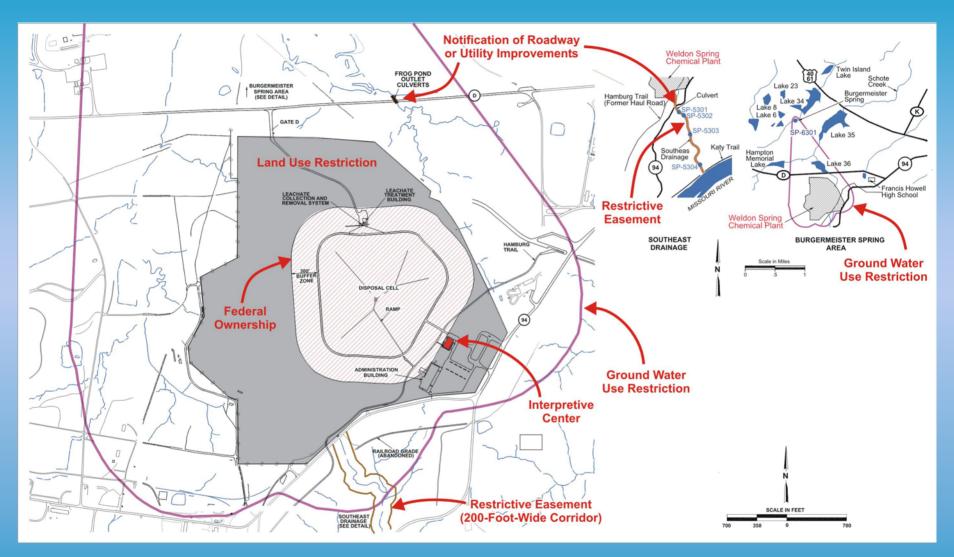
- Comments relating to the Institutional Control Process and Implementation: A-5, 73, 80, 88, 116; B-6, 16, 28; D-1, 4; E-9; J-24, 25, 28, 29, 32, 33; K-6; L-61, 97, 98, 99, and 100
- Comment Areas
  - Process for developing institutional controls
  - Opportunities for stakeholder input

#### This table is reproduced as it was presented in the August 9, 2002, draft Long-Term Stewardship Plan for the Weldon Spring, Missouri, Site

Location	Туре	Contaminants	Reference Document	Property Owner
Disposal Cell	Soil, building debris, stabilized sludge isolated in an engineered containment system	Uranium, thorium, radium, nitroaromatic compounds, metals, asbestos, PAHs, and PCBs	Record of Decision for Remedial Action at the Chemical Plant Area of the Weldon Spring Site (DOE 1993)	DOE
Culverts under County Route D at Frog Pond Outlet, 1.0 mile west of Highway 94 intersection	Bedding material under the culverts and fixed surface contamination on corrugated metal pipe	Uranium	"Applications for Supplemental Surface Contamination Limits for Southeast Drainage and Frog Pond Drainage Culverts" (DOE 2001b)	Missouri Department of Transportation, Missouri Department of Conservation, utilities with easements
Culvert under State Highway 94 at Southeast Drainage, 1.5 miles south of Route D intersection	Fixed surface contamination on corrugated metal pipe	Uranium	"Applications for Supplemental Surface Contamination Limits for Southeast Drainage and Frog Pond Drainage Culverts" (DOE 2001b)	Missouri Department of Transportation, Missouri Department of Conservation
Southeast Drainage between the Chemical Plant boundary and Katy Trail	Stream sediments and contaminated spring water	Uranium, thorium, and radium	Southeast Drainage Closeout Report Vicinity Properties DA4 and MDC7 (DOE 1999b)	Missouri Department of Conservation
Chemical Plant ground water	Ground water in the Burlington-Keokuk Limestone	Uranium, TCE, nitroaromatics, and nitrate	GWOU Record of Decision (pending)	DOE, U.S. Army, Missouri Department of Conservation, Missouri Department of Transportation
Quarry proper	Soil in inaccessible locations	Uranium, thorium, and radium	Remedial Design/Remedial Action Work Plan for the Quarry Residuals Operable Unit (DOE 2000c)	DOE
Quarry area north of Femme Osage Slough (reduction zone)	Soil between the Katy Trail and the Femme Osage Slough	Uranium	Completion Report for the Geochemical Characterization Performed in Support of the QROU Field Studies (DOE 2002b)	Missouri Department of Conservation
Quarry ground water	Ground water in the alluvium, Kimmswick Limestone, Decorah Group, and Plattin Limestone	Uranium and 2,4-DNT	Remedial Design/Remedial Action Work Plan for the Quarry Residuals Operable Unit (DOE 2000c)	DOE, Missouri Department of Conservation

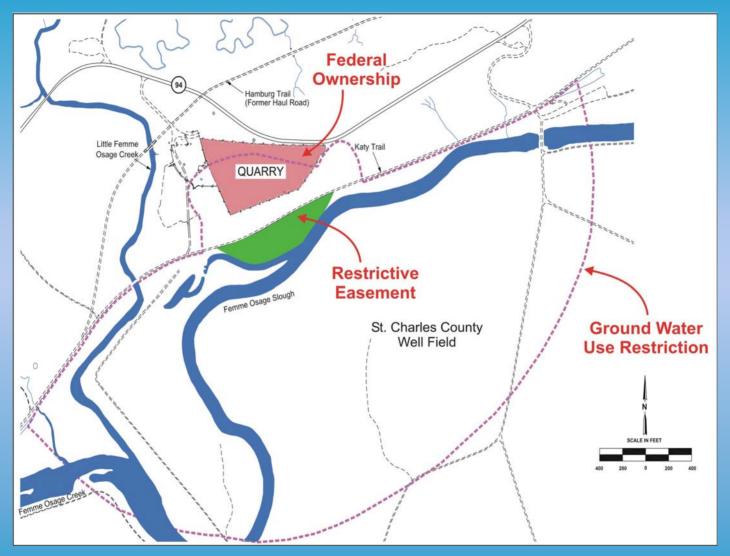
Key: DNT = dinitrotoluene; PAH = polycyclic aromatic hydrocarbons; PCB = polychlorinated biphenyl; TCE = trichloroethylene.

#### This figure was presented at the August 28, 2002, Long-Term Stewardship Plan Workshop



Institutional Control Locations at the Chemical Plant Area

#### This figure was presented at the August 28, 2002, Long-Term Stewardship Plan Workshop



Institutional Control Locations at the Quarry Area

## Major Issue 3: Stewardship Activities for Institutional Controls

Sections 2.8 and 3.7 of Long-Term Stewardship Plan

- Comments relating to this issue: A-156, 202, 204, 242, 249; B-17, 26, 28, 34, 35, 48, 51, 54; E-12, 16, J-3, 20, 26, 30, 56, 57; K-12, 21; L-107, 121, and 158
- Comment Areas
  - Maintaining public and agency awareness
  - Inspection and monitoring activities
  - Postings and access restrictions
  - Institutional control enforcement

## This table is reproduced as it was presented in the August 9, 2002, draft Long-Term Stewardship Plan for the Weldon Spring, Missouri, Site

Institutional Control <sup>a</sup>	Method of Implementation <sup>b</sup>	Parties to Agreement	Duration		
	Chemical Plant (see Figure B–1)				
Restrict land use at disposal cell, 300-ft buffer area, and area between buffer area and site boundary	Control land use through Federal ownership	DOE	In perpetuity		
Restrict land use in area between buffer area and site boundary to prohibit ground water use and changes to final grading	Restrictive use agreements with possible lessee	Lessee, DOE	In perpetuity, except that ground water use restrictions may be removed when ground water meets standards		
Restrict nonrecreational use in Southeast Drainage	Restrictive easement	Missouri Department of Conservation, DOE	In perpetuity		
Restrict exposure to contaminated ground water <sup>c</sup>	Restrictive easements	Missouri Department of Conservation, Department of the Army, possibly others, DOE	Until ground water meets standards and use restrictions are removed		
Restrict consumption of water at Springs 6301, 5301, 5302, 5303, and 5304	Restrictive easements	Missouri Department of Conservation, DOE	Until ground water meets standards and use restrictions are removed		
Restrict exposure to contaminated pipes or soil at culverts under State Highway 94 and County Route D	Notification of roadway or utility improvements	Missouri Department of Transportation, County Public Works Department, utility companies, DOE	Until culverts are replaced		

<sup>&</sup>lt;sup>a</sup>These institutional controls have not yet been implemented.

<sup>&</sup>lt;sup>b</sup>These are typical methods; actual methods have not been identified.

<sup>&</sup>lt;sup>c</sup>These institutional controls are tentative and will not be finalized until the Ground Water Operable Unit Record of Decision is approved.

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Institutional Control <sup>a</sup>	Method of Implementation <sup>b</sup>	Parties to Agreement	Duration
Quarry (see Figure B–2)			
Restrict non-recreational land use on quarry property	Control land use through Federal ownership	DOE	In perpetuity
Restrict ground water use in area of ground water contamination and in area south of Katy Trail	Restrictive easement	Missouri Department of Conservation, DOE	Until ground water meets standards
Restrict land use to prevent physical disturbance of reduction zone	Restrictive easement	Missouri Department of Conservation, DOE	In perpetuity

<sup>&</sup>lt;sup>a</sup>These institutional controls have not yet been implemented.

Table 2–12 (Continued). Summary of Institutional Controls for the Weldon Spring, Missouri, Site

<sup>&</sup>lt;sup>b</sup>These are typical methods; actual methods have not been identified.

<sup>&</sup>lt;sup>c</sup>These institutional controls are tentative and will not be finalized until the Ground Water Operable Unit Record of Decision is approved.

#### **Major Issue 4. Site Security**

Section 3.9 of Long-Term Stewardship Plan

- Comments relating to this issue: A-4, 92, 206, B-7; D-6, and J-67
- Comment Areas
  - Flyover restrictions
  - Restricting access to disposal cell

# Response to Focus Area Session Input

 Input from Focus Area sessions will be recorded but specific responses will not be developed after each session. However, responses will be adopted and included either in the revised draft Long-Term Stewardship Plan or in a response summary that will identify why the comment is not being adopted. If a response summary is prepared, it will be distributed with the revised draft Long-Term Stewardship Plan.

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<u> </u>	September 10, 2002	Comments due on draft Long-Term Stewardship Plan for the Weldon Spring, Missouri, Site
imetabl	October 10, 2002	Responses to comments posted on Internet at www.gjo.doe.gov/programs/ltsm/maps/mo-i.htm and mailed to requesters
Ē	October 23, 2002	Focus Area Work Session: Communication and Public Participation
1	December 5, 2002	Focus Area Work Session: Land Use and Institutional Controls and Homeland Security
	January 2003	Focus Area Work Session: Monitoring and Maintenance
	January 2003	Weldon Spring LTSM Program website
		<ul> <li>On-line viewing of all site documents listed in the Weldon Spring Long-Term Stewardship Plan and key documents contained in the completed Administrative Records</li> </ul>
		<ul> <li>On-line viewing of historical water-quality and water-level data for existing wells</li> </ul>
	Spring 2003	Issue revised draft Long-Term Stewardship Plan
	Spring 2003	Issue draft Proposed Plan for the Ground Water Operable Unit
	Fiscal Year 2003	Add key Weldon Spring documents to the LTSM Program website

#### **Points of Contact**

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